IN THE CLAIMS:

1-13. (Canceled)

- 14. (Currently Amended) A wireless network, comprising:
 - a base station;

a terminal operable to be assigned to <u>a radio cell of</u> the base station for exchanging user data and control data, the terminal being further operable to transmit a first signaling sequence as an indication of a wish by the terminal to use one of the plurality of contention channels;

wherein the base station, upon receiving the first signaling sequence, is operable to generate and detect a pulse representative of a correlation of the first signaling sequence in response to receiving the first signaling sequence; and

wherein the base station, upon generating and detecting the pulse, is further operable to transmit broadcast a provision message over at least one contention channel to the terminal, the provision message indicating at least one of the contention channels available to the terminal in response to generating and detecting the pulse.

15. (Currently Amended) The wireless network of claim 14,

wherein the terminal is further operable to transmit the first signaling sequence during a specific time slot of a transmitting-end reference frame; and

wherein, after receiving the <u>provisional provision</u> message over the at least one contention channel from the base station, the terminal is further operable to transmit at least one of a terminal identification and a data packet over a first contention channel to the base station.

- 16. (Previously Presented) The wireless network of claim 14, wherein the base station includes:
 - a matched filter operable to generate the pulse; and
- a peak detector operable to detect a peak of the pulse during a specific time slot of a receiving-end reference frame.

17. (Previously Presented) The wireless network of claim 14,

wherein the terminal is further operable to transmit the first signaling sequence as one of a Gold sequence, a Kasami sequence or a Golay sequence during a specific time slot of a transmitting-end reference frame.

18. (Previously Presented) The wireless network of claim 14,

wherein the terminal is further operable to transmit the second signaling sequence to the base station in response to a failure to receive an acknowledgement of the reception of the first signaling sequence by the base station within a predefined period of time after transmission of the first signaling sequence to the base station.

19. (Previously Presented) The wireless network of claim 14,

wherein, subsequent to receiving the provision message, the terminal is further operable to transmit a second signaling sequence to the base station in response to a failure to receive an acknowledgement of a reception of data by the base station over an assigned contention channel.

20. (Previously Presented) The wireless network of claim 14,

wherein the terminal is further operable to re-transmit the first signaling sequence to the base station with an increase energy in response to a failure to receive an acknowledgement of the reception of the first signaling sequence by the base station within a predefined period of time after the first transmission of the first signaling sequence to the base station.

21. (Currently Amended) The wireless network of claim [[13]] 14,

wherein the terminal is further operable to transmit the first signaling sequence during a specific time slot of a transmitting-end reference frame; and

wherein, after receiving the provision message over the at least one contention channel from the base station, the terminal is further operable to transmit at least one of a terminal identification and a data packet over a first contention channel to the base station in response to the provision message indicating the specific time slot of the transmitting-end reference frame.

- 22. (Currently Amended) The wireless network of claim [[13]] 14, where the first signaling sequence is one of a plurality of signaling sequences associated with the wireless network.
- 23. (Previously Presented) The wireless network of claim 22, wherein each signaling sequence is further associated with a different data rate.
- 24. (Currently Amended) A base station in a wireless network for exchanging user data and control data with a terminal operable to be assigned a radio cell, the base station comprising:

a receiver operable to generate and detect a pulse representative of a correlation of a signaling sequence in response to receiving the signaling sequence from the terminal; and

a transmitter operable to transmit a provision message at least one contention channel to the terminal in response to a generation and a detection of the pulse by the receiver, the provision message indicating at least one of the contention channels available to the terminal.

- 25. (Previously Presented) The base station of claim 24, wherein the receive includes: a matched filter operable to generate the pulse; and a peak detector operable to detect a peak of the pulse during a specific time slot of a receiving-end reference frame.
- 26. (Currently Amended) A terminal <u>operable to be assigned a radio cell</u> in a wireless network for exchanging user data and control data a base station, the terminal comprising:

a transmitter operable to transmit a first signaling sequence to the base station, the signaling sequence being indicative of a wish to use one of a plurality of contention channels; and

a receiver operable to receive a provision message from the base station over at least one contention channel subsequent to the transmission of the first signaling sequence by the transmitter, the provision message indicating at least one of the contention channels available to the terminal.

27. (Previously Presented) The terminal of claim 26,

wherein the transmitter is further operable to transmit the first signaling sequence during a specific time slot of a transmitting-end reference frame; and

wherein, after receiving the provision message over the at least one contention channel from the base station, the transmitter is further operable to transmit at least one of a terminal identification and a data packet over a first contention channel to the base station.

28. (Previously Presented) The terminal of claim 26,

wherein the transmitter is further operable to transmit the first signaling sequence as one of a Gold sequence, a Kasami sequence or a Golay sequence during a specific time slot of a transmitting-end reference frame.

29. (Previously Presented) The terminal of claim 26,

wherein the transmitter is further operable to transmit the second signaling sequence to the base station in response to a failure to receive an acknowledgement of the reception of the first signaling sequence by the base station within a predefined period of time after transmission of the first signal sequence to the base station.

30. (Previously Presented) The terminal of claim 26,

wherein, subsequent to receiving the provision message, the transmitter is further operable to transmit a second signaling sequence to the base station in response to a failure to receive an acknowledgement of a reception of data by the base station over an assigned contention channel.

31. (Previously Presented) The terminal of claim 26,

wherein the transmitter is further operable to re-transmit the first signaling sequence to the base station with an increase energy in response to a failure to receive an acknowledgement of the reception of the first signaling sequence by the base station within a predefined period of time after the first transmission of the first signal sequence to the base station.

32. (Previously Presented) The terminal of claim 26,

wherein the transmitter is further operable to transmit the first signaling sequence during a specific time slot of a transmitting-end reference frame; and

wherein, after receiving the provision message over the at least one contention channel from the base station, the terminal is further operable to transmit at least one of a terminal identification and a data packet over a first contention channel to the base station in response to the provision message indicating the specific time slot of the transmitting-end reference frame.

33. (Currently Amended) A method of exchanging user data and control data in a wireless network between a base station and a terminal operable to be assigned a radio cell, the method comprising:

a transmission of transmitting a signaling sequence from the terminal to the base station, the signaling sequence being indicative of a request by the terminal to use of one of a plurality of contention channels;

a generation generating and the detection of detecting a pulse being representative of a correlation of the signaling sequence by the base station in response to the base station receiving the signaling sequence from the terminal; and

a transmission of broadcasting a provision message by the base station over at least one contention channel to the terminal in response to a generation and a detection of the pulse by the base station, the provision message indicating at least one of the contention channels available to the terminal.

34. (New) The wireless network of claim 14, wherein the terminal, upon receiving the provision message, is further operable to transmit a registration request to the base station, and

wherein the base station, upon receiving the registration request, is further operable to acknowledge the reception of the registration request to the terminal and assign the terminal to the radio cell.

35. (New) The base station of claim 24, further comprising:
a registration element operable to acknowledge the reception of a registration request to the terminal and assign the terminal to the radio cell.

36. (New) The terminal of claim 26, further comprising:

a requesting element operable to format a registration request to be transmitted to the base station in response to the provision message received from the base station.

37. (New) The method of claim 33, further comprising:

transmitting a registration request to the base station from the terminal in response to the terminal receiving the provision message from the base station;

acknowledging receipt of the registration request by the base station; and assigning the terminal to the radio cell.